



# **ENVIRONMENTAL REVIEW CHECKLIST/ ENVIRONMENTAL MITIGATION AND MONITORING PLAN(ERC/EMMP)**

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**for  
Agro IT Arena – Center for Development and Research**

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**Implemented under: Future Technologies Activity  
(FTA)**

**IEE DCN: 2021-MOL-011  
IEE Amendments DCNs: 2021-MOL-011-002 &  
2021-MOL-011-003**

**Prepared by: Chemonics International**

## ENVIRONMENTAL REVIEW CHECKLIST FOR IDENTIFYING POTENTIAL ENVIRONMENTAL IMPACTS OF PROJECT ACTIVITIES AND PROCESSES

The Environmental Review Checklist (ERC) and Environmental Mitigation and Monitoring Plan (EMMP) is intended for use by implementing partners to:

- assess activity-specific baseline conditions, including applicable environmental requirements;
- identify potential adverse environmental effects associated with planned activities; and
- develop EMMPs that can effectively avoid or adequately minimize the identified effects.

If implementing partners are in doubt about whether a planned activity requires preparation of an ERC, they should contact their Contracting Officer's Representative (COR)/Agreement Officer's Representative (AOR) for clarification. In turn, the COR/AOR should contact their Mission Environmental Officer (MEO) if they have any questions. In special circumstances and with approval of the BEO it is possible to have one very comprehensive ERC/EMMP for multiple sub-activities if they are similar in scope. *(When preparing the ERC/EMMP, please indicate "not applicable" for items that have no bearing on the activity.)* The ERC/EMMP should be completed by an environmental specialist. **The ERC/EMMP must be completed and approved prior to the activity beginning.**

### 1. Activity and Site Information

<b>Project Name: (as stated in the IEE)</b>	Future Technologies Activity (FTA)
<b>Mission/Country:</b>	USAID/Moldova
<b>DCN of Original IEE:</b>	2021-MOL-011
<b>DCNs of IEE Amendments</b>	2021-MOL-011-002 & 2021-MOL-011-003
<b>Activity/Site/Grantee Name:</b>	Agro IT Arena – Center for Development and Research
<b>Type of Activity:</b>	In-kind procurement
<b>Implementing Partner:</b>	Chemonics International, Inc.
<b>Name and Organization of Preparer:</b>	Ecaterina Culev, Grants and Procurement Manager
<b>Date Prepared:</b>	May 17, 2022

### 2. Activity Description

#### 2.1. Activity purpose

While agriculture is one of Moldova's most important economic sectors, the field currently lacks specialists and innovative technologies. The methods used by most farmers are outdated and require a lot of manual work. The "Agro IT Arena" aims to bring innovative technological solutions to the agriculture sector through educational development and research. Students from various faculties from the Technical University of Moldova will combine their skills to develop ideas that will solve the problems most often encountered by farmers.

The Agro IT Arena will serve as a staging ground where university students will present their project concepts to solve the problems identified in the agriculture sector. The best projects will

have the chance to be prototyped and implemented in a greenhouse which is to be established on the grounds of the Technical University and managed by Micro Lab. The Micro Lab Engineering Club is a nongovernmental, non-profit organization founded in September 2011 and located on the premises of the Technical University of Moldova (TUM). Micro Lab holds bootcamps, workshops, hackathons, and other events for university students and young professionals, and also provides consulting services to private sector industry partners in coordination with participating university faculty, alumni, and students.

Acquisition and installation of a greenhouse on TUM's campus will serve as a research and development (R&D) site for engineers in individual projects, courses, licenses and other research initiatives in the field of Innovative Technologies in Agriculture (Agro IT). The greenhouse will also be used to offer modern university courses on Agro IT and train specialists on new skills in the growing field. As part of its partnership with Micro Lab and FTA, TUM will provide the space on campus and connect the greenhouse to existing water and electricity sources free of charge.

## 2.2. Total funding in USD

	Amount in MDL	ER as of May 2022	Amount in USD
Amount requested from FTA project:	89,800	18.40	\$4,880.44
<b>Total Estimated Grant Activity Cost:</b>	<b>89,800</b>		<b>\$4,880.44</b>

## 2.3. Direct Beneficiaries, e.g., size of community, number of school children, etc.

Beneficiaries of the grant activity include: 1) university students; 2) young professionals in the agro-engineering sector; 3) industrial partners from the private sector; 4) academic partners who collaborate in R&D efforts.

## 2.4. Number of existing employees and annual revenue, if this is a business

The A.O. "Micro Lab Engineering Club", established on September 20, 2011, is a non-governmental, non-profit organization. One of the main objectives of the A.O. "Micro Lab Engineering Club" is the development of talents for the industrial environment, by developing the community of engineers in Embedded Systems. Among Embedded Engineering domains can be listed Internet of Things, Precision Engineering and Digitalization, with applications in Home Automation, Industrial Equipment, Autonomous Systems, Agriculture, Robotics & Mechatronics. Currently, Micro Lab has four employees.

## 2.5. Implementation timeframe and schedule

The establishment of the greenhouse shall take place during May-June 2022.

## 2.6. Detailed description of activity

FTA will support Micro Lab and the Technical University of Moldova by selecting a vendor to procure and install a greenhouse to be used for educational R&D purposes (not full-scale agricultural production). The greenhouse is a non-loadbearing and non-permanent structure which is pre-engineered and delivered as a kit that requires light assembly. Assembly will be carried out by the supplier and does not require heavily skilled labor or technical equipment – assembly is similar to erecting a tent structure, as the greenhouse is composed of plastic film

and a metal frame. In line with ADS 303.3.30, “Limitation on Construction under Assistance,” FTA will not engage in construction activities under this or any Grant Agreement. FTA uses the definition of construction as found in USAID Implementation of Construction Activities, a Mandatory Reference for ADS Chapters 303.





*Photos provided by vendor: An example of what the greenhouse will look like after assembly is completed.*

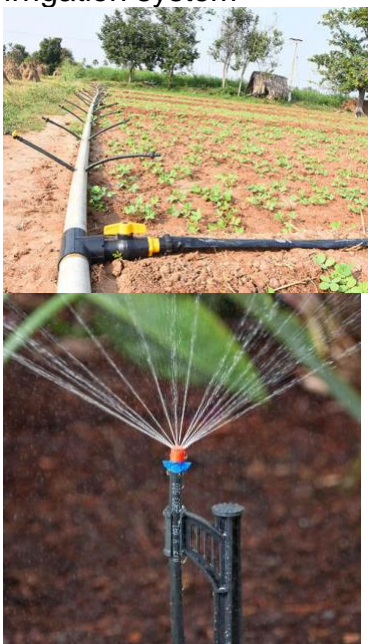
- 2.6.1. Steps that will be taken to accomplish the activity, including mobilization, site preparation, site restoration, and demobilization, if applicable;

The supplier will deliver the greenhouse kit (including the automatic ventilation system and drip and micro-sprinkler irrigation system required for maintaining temperature and moisture inside the greenhouse). The supplier will then assemble the greenhouse and work with TUM technical staff to connect the required parts to existing water and electricity sources provided by the university. Micro Lab has received solar panels through other donor funded activities which will be utilized for the greenhouse activities separately from FTA’s sponsored assembly of the greenhouse.

- 2.6.2. Items that will be purchased (This section should fully describe what funds are being used for.)

FTA will purchase the items listed in the below table.

1.	<p>Tunnel-type greenhouse with straight walls “GEO 60L”</p> 	<p>Greenhouse is made of galvanized metal, covered with a layer or two of polyethylene foil.</p> <p>Sizes:</p> <p>Width – 6.0 m</p> <p>Length – 12.5 m</p> <p>Height – 3 m</p> <p>Wall height – 2.0 m</p> <p>Area – 75 sqm</p>
2.	<p>Automatic ventilation system</p>  <p>installation Example</p>	<p>The air flow is managed through two electric motors connected to the control panel with a microcomputer and thermostat, depending on the desired temperature set inside the greenhouse.</p>

3.	<p>Drip and micro-sprinkler irrigation system</p> 	<p>Drip irrigation system - includes drip lines connected to the main hose. From the width of the greenhouse there will be 8 rows of plants, so 8 drip lines with a length of 20m each.</p> <p>The main materials that are included are:</p> <ul style="list-style-type: none"> <li>* Bus hose diam.32mm - 10m for the greenhouse</li> <li>* Drip hose diam.17mm, distance between dripper 20cm, flow 1.5lph - 100m</li> <li>* Filter diam 1 " - 1pc</li> <li>* Central valve diam.1 " - 1 pc</li> <li>* Connections required for system-set connection</li> </ul> <p>Micro-sprinkler irrigation system - a diameter hose line will be mounted on the culture support bar. 20mm in which the micro-sprinklers will be inserted, with the following specifications: <math>R = 3.5m</math>, <math>Q = 105lph</math>. In total there will be 5 micro sprinklers, of which 2 one. will have a range of <math>180^\circ</math>, and 3un - <math>360^\circ</math>. <math>Q_{tot} = 525 lph</math>.</p>
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The total cost of the abovementioned items is of 89,800 MDL (\$4,880.44 at the May 2022 ER of 1 USD=18.40 MDL)

2.6.3. What entity will be responsible for the maintenance or sustainability of the activity after completion or handover?

Initially, the greenhouse will remain in FTA's project inventory so that FTA can monitor that Micro Lab and TUM are using and maintaining the greenhouse and auxiliary equipment as intended. Then, following CO approval, FTA will formally transfer the greenhouse to Micro Lab, which will be responsible for further maintenance and coordination with TUM.

2.7. Location of activity, e.g. name of village or town, street address, province

Technical University of Moldova, Chisinau, str. Studentilor 9/11, Republic of Moldova

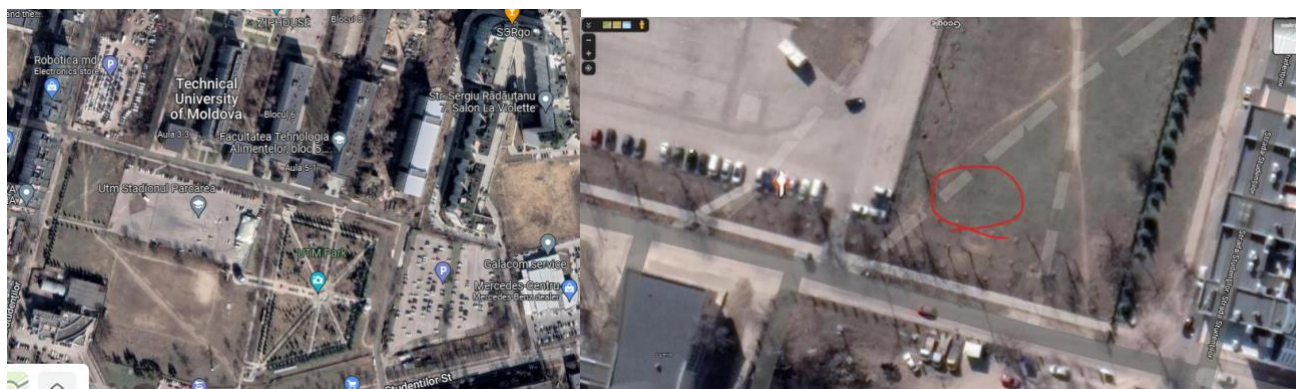
2.8. Detailed description of site

2.8.1. Existing setting, e.g., urban, village, agricultural, or undisturbed land

The greenhouse will be located in an urban area of Chisinau, on the campus of the Technical University of Moldova.

2.8.2. Size of the facility or hectares of land

The complex will be located on the student campus opposite the #3-3 classroom block of the Technical University, in the immediate vicinity of the parking lot, on a surface of about 75 sqm. Micro Lab is permitted to use this space based on a Collaboration Agreement signed with the Technical University of Moldova for the implementation of the Agro IT program. There is a 24/7 security guard in the adjacent parking lot that will maintain security of the greenhouse too. In addition, the campus is closed after 21:00 and there are video security cameras covering the area.



Photos: Left, Micro Lab office on Technical University campus. Right, red circle shows where greenhouse will be assembled.

## 2.9. Photos of site, items to be purchased, engineering construction plans (*when available*)

Photos and description of the items to be purchased included above section 2.6.2.

## 3. Activity-Specific Baseline Environmental Conditions

- 3.1. Population characteristics - population of Chisinau totaled 532,513 in 2014, when last measured in a census.
- 3.2. Geography - Chisinau municipality, Capital of the Republic of Moldova.
- 3.3. Climate - The local climate is temperate with long and hot summers and relatively mild winters. The annual amount of precipitation and average temperature strongly varies from year to year. Moldova's climate is moderately continental: the summers are warm and long, with temperatures averaging about 20 °C (68 °F), and the winters are relatively mild and dry, with January temperatures averaging -4 °C (25 °F). Annual rainfall, which ranges from around 6 centimeters (2.4 in); long dry spells are not unusual. The heaviest rainfall occurs in early summer and again in October; heavy showers and thunderstorms are common.
- 3.4. Natural resources, e.g., nearby forest/protected areas, ground and surface water resources – N/A
- 3.5. Current land use and owner of land – The land is owned by the Technical University of Moldova, which is not currently using the land and has agreed to provide it to Micro Lab to be used as the Agro IT Arena for educational and research purposes.
- 3.6. Other relevant description of current environmental conditions in proximity to the activity – N/A

## 4. Legal, Regulatory, and Permitting Requirements

- 4.1. Does this activity require an EIA under a national law? - No
- 4.2. Applicable National or local permits for this activity, responsible party, and schedule for obtaining them:

Permit Type	Responsible party	Schedule
Zoning	N/A	N/A
Building/Construction	N/A	N/A
Source Material Extraction	N/A	N/A
Waste Disposal	N/A	N/A
Wastewater	N/A	N/A
Storm Water Management	N/A	N/A
Air Quality	N/A	N/A

Water Use	N/A	N/A
Historical or Cultural Preservation	N/A	N/A
Wetlands or Water bodies	N/A	N/A
Threatened or Endangered Species	N/A	N/A
Other	N/A	N/A

4.3. Will the activity be required to adhere to formal engineering designs/plans? - No  
If yes, attach the designs or plans to this ERC/EMMP.

4.3.1. Have the designs or plans been or will they be developed by a qualified engineer? – N/A

## 5. Land use changes and land impacts

5.1. Will the activity change the land use, e.g., undeveloped, agricultural, residential, commercial, or industrial?	No
5.2. Will the activity require temporary or permanent property land taking?	No
5.3. Will the activity involve site preparation, e.g., clearing and grubbing, grading?	Yes, minimal clearing will be required. The greenhouse will be installed on a grassy empty lot next to the parking area. There may be some weeds and small shrubs that will need to be cleared to make an even surface for the greenhouse. Any weeds/shrubs will be disposed of in green waste.
5.4. Will the activity involve onsite excavation or trenching?	No
5.5. Will the activity involve the use of borrow pits or quarries? If so, describe the siting, operation, and closure plans.	No
5.6. Will the activity interfere with or connect to existing aboveground or below-ground utilities, e.g., electricity, communications, water, sewer, or natural gas?	Yes, the Technical University has agreed to connect the greenhouse to its existing water and electricity systems.
5.7. Will the activity involve installation of new aboveground or below-ground utilities, e.g., electricity, communications, water, sewer, or natural gas?	No
5.8. Will the activity result in mineral extraction, e.g., aggregate, stone, or coal?	No
5.9. Will the activity result in hydrocarbon extraction, e.g., oil, or natural gas?	No

5.10. Are there known geological hazards, e.g., faults, landslides, or unstable soils which could affect the activity? If yes, how will the project ensure structural integrity?	No
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## 6. Impacts to forestry, biodiversity, protected areas, and endangered species

6.1. Is the site located adjacent to or near a protected area, national park, nature preserve, or wildlife refuge?	No
6.2. Is the site located in or near threatened or endangered (T&E) species habitat?	No
6.2.1. If yes, describe the plan for identifying T&E species during activity implementation. (Non-yes/no question)	-
6.2.2. If yes, describe the formal process for halting work, avoiding impacts, and notifying authorities if T&E species are identified during implementation.	-
6.3. Is the site located in a migratory bird flight or other animal migratory pathway?	No
6.4. Will the activity involve harvesting of non-timber forest products, e.g., mushrooms, medicinal and aromatic plants (MAPs), herbs, or woody debris?	No
6.5. Will the activity involve tree removal or logging?	No
6.6. Will activities result in increased outdoor noise on a continuous or frequent basis at sound levels that disturb wildlife?	No

## 7. Water and water quality impacts

7.1. List any National, European Union, or other international water discharge regulations or standards applicable to this activity. (Non-yes/no question)	Law No. 272 “On water”; Law No. 303 “On public service of water supply and sewerage”
7.2. How far is the site located from the nearest river, stream, or lake? (Non-yes/no question)	1.3 km from Lake #1 in Rascani Park in Chisinau
7.3. Is the site located in a floodplain?	No
7.4. Will the activity increase the risk of flooding at the site or on other property?	No
7.5. Will the activity disturb wetland, lacustrine, or riparian areas?	No

7.6.	Will the site require excavation within, placing of fill in, or substrate removal (e.g., gravel) from a river, stream, or lake?	No
7.7.	What is the depth to groundwater at the site? (Non-yes/no question)	N/A
7.8.	Will the activity cause interference with the current drainage systems or conditions?	No
7.9.	Will the activity result in new or increased ground or surface water extraction? If yes, describe the expected volumes and the permit requirements.	No. Because the greenhouse is not used for industrial agricultural purposes (i.e., the purpose of the greenhouse is not solely to grow plants), it is not expected that there will be a significantly increased demand for water, which will be provided from TUM's existing water sources. The greenhouse will be used to test the efficiency of automatic mechatronic solutions in solving agricultural challenges, so there will be a minimum amount of plants available to facilitate this research, so there will not be a high demand for water.
7.10.	Will the activity discharge domestic or industrial sewage to surface water, groundwater, or a publicly owned treatment facility?	No
7.11.	Will the activity change storm water runoff volume, intensity, or locations? If so, describe how the designs/plans effectively and comprehensively address the management of storm water runoff and its effects.	No
7.12.	Is there potential for discharge of potentially contaminated (including suspended solids) runoff?	No
7.13.	Will the activity result in the runoff of pesticides, fertilizers, or toxic chemicals into surface water or groundwater?	No. Micro Lab does not intend to use fertilizer inside the greenhouse, as its purpose is focused on the development of mechatronic activities and robotics. If any fertilizer is used, it would be minimal and disposed of per usage instructions to ensure

	there is no runoff into the surface or ground water sources.
7.14. Will the activity involve the use or onsite storage of liquid fuels? If yes, describe the fuel type(s), quantities, storage conditions, and spill control procedures.	No
7.15. Will the activity result in discharge of effluent containing livestock wastes such as manure or blood?	No

## 8. Atmospheric and air quality impacts

8.1. List any National, European Union, or other international air emission regulations or standards applicable to this activity.	Law No. 1422-XIII on protection of the atmospheric air
8.2. Will the activity result in increased emission of air pollutants from a vent or as fugitive releases, e.g., soot, sulfur dioxide, oxides of nitrogen, volatile organic compounds, or methane?	No
8.3. Will the activity involve burning of fossil fuels?	No
8.4. Will the activity involve burning of wood or biomass?	No
8.5. Will the activity install, operate, maintain, or decommission systems containing ozone depleting substances, e.g., freon or other refrigerants?	No
8.6. Will the activity generate an increase in carbon emissions?	No
8.7. Will the activity increase odor on a continuous or frequent basis?	No
8.8. Will the activity generate dust on a continuous or frequent basis?	No
8.9. Will the activity increase the risk of fire, explosion, or hazardous airborne chemical releases?	No

## 9. Energy efficiency, pollution prevention, and cleaner production

9.1. Does the activity use renewable energy sources? If yes, describe the energy sources.	Yes, the greenhouse will also utilize power from solar panels that Micro Lab has received from another donor partner and will install with the greenhouse,
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	separately from the FTA-supported greenhouse assembly.
9.2. Does the activity require use of energy efficiency equipment? If yes, describe the energy efficiency requirement.	Yes, the automatic ventilation system is configured so that they turn off when the greenhouse reaches the required temperature and humidity levels, in order to conserve energy.
9.3. Does the activity promote pollution prevention and cleaner production measures? If yes, describe the measures.	No.
9.4. Does the activity promote maximum reliance on green building or green land-use approaches? If yes, describe the approaches.	Yes. As mentioned above, the greenhouse will also derive power from solar panels, and the automatic ventilation system provided by FTA are built to turn off when reaching the desired temperature and humidity levels, in order to conserve energy.

## 10. Waste management

10.1. List any National, European Union, or other international solid waste disposal or storage regulations or standards applicable to this activity. (Non-yes/no question)	Law No. 209 “On waste”; Governmental Decree No. HG561/2020 validating the Regulation on packaging materials and packaging waste; Law No. 1347-XIII on industrial and domestic waste
10.2. List any National, European Union, or other international hazardous waste disposal or storage regulations or standards applicable to this activity. (Non-yes/no question)	Law no.1236-XIII on hazardous substances; Governmental Decree No. HG586/2020 validating Regulation on management of waste of batteries and accumulators
10.3. Describe the local capabilities and facilities for solid, hazardous, and recyclable wastes. (Non-yes/no question)	Waste produced by the greenhouse will be disposed of to the proper waste facilities on the university’s campus or one of the main facilities available in Chisinau. Micro Lab does not intend to use fertilizer inside the greenhouse, as its purpose is focused on the development of mechatronic activities and robotics. If any fertilizer is used, it would be minimal and disposed

	of per requirements. Batteries and other electronic equipment that reaches the end of its useful life will be disposed of to a firm that is authorized to responsibly either recondition and resell this material or disassemble this material into its component parts and recycle these parts.
10.4. Will the activity generate nonhazardous solid wastes such as construction debris, packaging material, or nontoxic byproducts? If yes, describe expected types and quantities of solid waste and the plans for reuse, recycling, and disposal.	Yes, potentially. Packaging materials and other non-hazardous solid waste related to the assembly of the greenhouse could be generated during assembly, which will be recycled or disposed of to the proper location by the supplier to a designated spot at the university or one of the many available spots in Chisinau.
10.5. Will the activity involve the generation and disposal of hazardous waste, such as solvents, acids, caustics, toxics, or other chemicals? If yes, describe the plans for disposal of these hazardous chemicals.	No
10.6. Will the activity involve lead paint or lead-painted building components? If yes, describe the plans for disposal of lead paint containers or lead-painted debris.	No
10.7. Will the activity involve the installation, use, or removal of asbestos-containing materials or building materials that may contain asbestos? If yes, describe the plans for disposal of waste asbestos containing materials.	No
10.8. Will the activity involve disposal or retrofitting of equipment containing polychlorinated biphenyls (PCB), e.g., electrical transformers or fluorescent light ballasts? If yes, describe the plans for disposal of PCB materials.	No
10.9. Will the activity generate any other solid or hazardous wastes requiring specific recycling or waste management plans, such as batteries, fluorescent tubes, aerosol cans, or electronic wastes? If yes, describe the plans for disposal of these materials.	Yes. Batteries and other electronic equipment that reaches the end of its useful life will be disposed of to a firm that is authorized to responsibly either recondition and resell this material or disassemble this

	material into its component parts and recycle these parts.
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## 11. Pesticide Health and Safety Impacts

11.1. Will the activity involve use or onsite storage of pesticides?	No
11.1.1. If yes, identify the applicable PERSUAP, including DCN and expiration date. (Non-yes/no question)	-
11.1.2. If yes, describe the types and quantities of pesticides.	-
11.1.3. If yes, describe the pesticide storage conditions.	-
11.1.4. If yes, describe the worker training requirements.	-
11.1.5. If yes, describe the personal protective equipment (PPE) to be worn workers.	-
11.1.6. If yes, describe public safety precautions.	-
11.2. Will chemicals be used or stored at the site? If yes, describe the chemicals, quantities, and storage conditions.	No
11.3. Will the activity potentially disturb soil contaminated with toxic or hazardous materials?	No

## 12. Social and cultural impacts

12.1. List any National, European Union, or other international historical or cultural preservation regulations or standards applicable to this activity.	N/A
12.2. Will activities result in light pollution, which could adversely affect the natural environment?	No
12.3. Are there cultural or historic sites located at or near the site?	No
12.3.1. If yes, provide a map showing the locations relative to the site.	-
12.3.2. If yes, indicate the distance between the activity site and each cultural or historic site.	-
12.3.3. If yes, describe the plan for avoiding disturbance or notifying authorities.	-

12.4. Are there unique ethnic or traditional cultures or values present at or associated with the site? If yes, what is the applicable preservation plan?	No
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### 13. Further Analysis of Recommended Actions (Most activities will have a threshold determinations of negative determination with conditions..)

- 13.1. ☐ **Categorical Exclusion:** The activity is not likely to have an effect on the natural or physical environment. No further environmental review is required.\* (This is rarely used in the ERC/EMMP.)
- 13.2. ☒ **Negative Determination with Conditions:** The activity does not have potentially significant adverse environmental, health, or safety effects, but may contribute to minor impacts that can be eliminated or adequately minimized by appropriate mitigation measures. ERC/EMMPs shall be developed, approved by the Mission Environmental Officer (MEO) and the BEO **prior to beginning the activity**, incorporated into workplans, and then implemented. For activities related to the procurement, use, or training related to pesticides, a PERSUAP will be prepared for BEO approval, PERSUAPS are considered amendments to the IEE and usually Negative Determination with Conditions. See Sections H and I below.\*
- 13.3. ☐ **Positive Determination:** The activity has potentially significant adverse environmental effects and requires further analysis of alternatives, solicitation of stakeholder input, and incorporation of environmental considerations into activity design. A Scoping Statement (SS) must be prepared and be submitted to the BEO for approval. Following BEO approval of the SS an Environmental Assessment (EA) will be conducted. The activity may not be implemented until the BEO clears the final EA. If the Parent IEE does not have Positive Determination as one of the threshold determinations, the IEE needs to be amended.
- 13.4. ☐ **Activity Cancellation:** The activity poses significant and unmitigable adverse environmental effects. Adequate ERC/EMMPs cannot be developed to eliminate these effects and alternatives are not feasible. The project is not recommended for funding.

**\*Note regarding applicability related to Pesticides (216.2(e):** The exemptions of §216.2(b)(I) and the categorical exclusions of §216.2(c)(2) **such as technical assistance, education, and training** are not applicable to assistance for the procurement or use of pesticides.

### 14. EMMPs and ROCs

- 14.1. Activity-specific environmental mitigation and monitoring plan (EMMP): Using the table provided below, list the processes that comprise the activity, then for each process, identify impacts requiring further consideration. For each impact, describe the mitigation and monitoring measures that will be implemented to avoid or to adequately minimize the impacts. All questions in Sections 5 through 12 with Yes or Maybe answers should be addressed. Upon request, the MEO may be able to provide your project with example EMMPs that are specific to your activity.
- 14.2. Annually (or more frequently if required by the Activity Manager/AOR /COR) and at the closeout of the activity, the IP shall prepare a Record of Compliance (ROC) to be submitted to the Activity Manager/AOR/COR. The ROC shall document how the mitigation and monitoring requirements were met. As appropriate, attachments such as

site photos, permits, verification of local inspections, product warranties, etc. should be included in the ROC. The ROC shall be posted to the USAID Environmental Compliance Database (ECD).

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
<b>Procurement</b>	Risk of technically faulty equipment or materials that could harm users or property	<b>Mitigation Measure 1:</b> Assure that all equipment is purchased from certified supplier with prior experience assembling greenhouses.	Confirm that equipment was purchased from certified supplier. Check references regarding past greenhouse assemblies.	Once upon procurement evaluation.	FTA	FTA procurement records
<b>Use</b>	Risk of harm to users or to building	<b>Mitigation Measure 1:</b> Beneficiary should read all equipment instructions for safe use of greenhouse and equipment and use accordingly. Beneficiary should provide detailed instructions to people who are using each piece of equipment for the first time, and these instructions should be easily	Continued safe use of greenhouse and equipment per manufacturer's instructions, which are easily available.  Policies in place for access and use of greenhouse and equipment, which will be regulated and	Annually	FTA/Beneficiary	FTA site visit reports; beneficiary progress reports as part of complementary activities

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
		<p>and openly accessible for users at all times.</p> <p><b>Mitigation Measure 2:</b> During site monitoring visits, FTA staff will confirm that greenhouse and all related equipment procured under this activity continue to be used appropriately and remain in good condition. Formal disposition to beneficiary will only happen once FTA has confirmed that greenhouse and equipment continue to be used safely and appropriately.</p> <p><b>Mitigation Measure 3:</b> Beneficiary</p>	monitored by beneficiary.			

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
		<p>should ensure that access to the greenhouse and equipment is regulated and supervised by the designated individuals to ensure care of all people and equipment.</p> <p><b>Mitigation Measure 4:</b> Ensure that fire safety equipment and first aid kit are located within or near to greenhouse.</p>				
<b>End of Useful Life</b>	Improper disposal of equipment may pose risk of harm to environment	<p><b>Mitigation Measure 1:</b> Assure that all equipment that has reached the end of its useful life is disposed to a firm authorized to responsibly either (a) recondition and resell this material or (b)</p>	1. FTA will provide written guidance on how to properly dispose of equipment upon assembly of the greenhouse, including a list of authorized firms in	Periodic site visits for verification	Beneficiary	Instruction for proper disposal of equipment, contact information for authorized firms that provide these services

Processes	Identified Environmental Impacts	Mitigation Measures	Monitoring Indicators	Monitoring and Reporting Frequency	Responsible Parties	Records Generated
		disassemble this material into its component parts and recycle these component parts. FTA will convey that the material should not be processed in the informal sector.	Moldova who provide these services			

## Certification of No Adverse or Significant Effects on the Environment

I, the undersigned, certify that activity-specific baseline conditions and applicable environmental requirements have been properly assessed; that environmental impacts and pesticide-related health and safety impacts requiring further consideration have been comprehensively identified; and that adverse impacts will be effectively avoided or sufficiently minimized by proper implementation of the EMMP(s). If new impacts requiring further consideration are identified or new mitigation measures are needed, I will be responsible for notifying the USAID COR/AOR, as soon as practicable. Upon completion of activities, I will submit a **Record of Compliance with Activity-Specific EMMPs** using a format approved by the MEO.



\_\_\_\_\_  
Doina Nistor  
Chief of Party, FTA

\_\_\_\_\_  
24.05.2022

\_\_\_\_\_  
Date

**Approvals:**

**Rodica  
Miron**

Digitally signed by  
Rodica Miron  
Date: 2022.05.25  
15:06:33 +03'00'

\_\_\_\_\_  
Name  
USAID COR/AOR

\_\_\_\_\_  
Date

**Constantin Mihailescu**

Digitally signed by Constantin Mihailescu  
Date: 2022.05.24 13:55:29 +03'00'

\_\_\_\_\_  
Name  
Mission Environmental Officer

\_\_\_\_\_  
Date

**Concurrence:**

\_\_\_\_\_  
Not required per Memo to File DCN: 2021-MOL-011-002

\_\_\_\_\_  
Bureau Environmental Officer  
Europe and Eurasia Bureau

\_\_\_\_\_  
Date

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## RECORD OF COMPLIANCE WITH ACTIVITY-SPECIFIC ENVIRONMENTAL MITIGATION AND MONITORING PLANS (EMMPs)

<b>Subject:</b>	<i>Site or Activity Name/Primary Project</i>
<b>IEE DCN:</b>	
<b>ERC/EMMP DCN:</b>	
<b>To:</b>	<i>COR/AOR/Activity Manager Name</i>
<b>Copy:</b>	<i>Mission Environmental Officer Name</i>
<b>Date:</b>	

The *[name of the implementing organization]* has finalized its activities at the *[site name]* to *[describe activities and processes that were undertaken]*. This memorandum is to certify that our organization has met all conditions of the EMMPs for this activity. A summary and photo evidence of how the mitigation and monitoring requirements were met is provided below.

1. Mobilization and Site Preparation
2. Activity Implementation Phase
3. Site Closure Phase
4. Activity Handover

Sincerely,

\_\_\_\_\_  
Implementer Project Director/COP  
Name

\_\_\_\_\_  
Date

**Approved:**

\_\_\_\_\_  
USAID/COR/AOR/Activity Manager  
Name

\_\_\_\_\_  
Date

**Distribution:**

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- MEO
- Bureau Environmental Officer